

AMENDMENT TO THE ABSTRACT

The following abstract will replace all prior versions of the abstract in the application:

ABSTRACT

Ground contact portions~~40~~ are categorized in a tree structure manner such that all of the ground contact portions ~~40~~ of a mobile body ~~1~~ (mobile robot) equipped with three or more ground contact portions ~~40~~ become leaf nodes and that an intermediate node exists between the leaf nodes and a root node having all the leaf nodes as its descendant nodes. On each node (a C-th node) having child nodes, the correction amounts of the desired relative heights of the ground contact portions ~~40~~ of the C-th node are determined such that at least the difference between an actual posture inclination and a desired posture inclination of a predetermined portion, such as a base body~~36~~, (posture inclination difference) is approximated to zero, and joints of the mobile body ~~1~~ are operated so that a desired relative height obtained by combining the correction amounts is satisfied.